

Proteomics and untargeted metabolomics from plasma

KA Kazuo Ando

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 An abbreviated version of this protocol was published in Science Translational Medicine in May 2021

Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset

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Detailed protocol

Participants will be consented to participate prior to study interventions.

Blood samples (10ml each) will be drawn sequentially throughout pregnancy beginning at 24 weeks at antenatal care visits throughout the pregnancy. The goal is to obtain between 3 and 5 blood samples before delivery. A final sample will be drawn at the 6 week postpartum visit, or at a time and place convenient for the participant. These samples will be analyzed in the Gaudilliere lab at Stanford using CYToF technology. An interim analysis of these samples will be conducted after 20 participants have completed the study to optimize the analysis of the remaining 60 participants. Enrollment will continue throughout this period.

In addition to blood samples we will collect basic demographic data, obstetric and general health history information, delivery data for the current pregnancy, and general information on the health of the delivered infant.

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Ando, K. (2023). Proteomics and untargeted metabolomics from plasma. Bio-protocol Preprint. bio-protocol.org/prep2373.
2. Stelzer, I. A., Ghaemi, M. S., Han, X., Ando, K., Hédou, J. J., Feyaerts, D., Peterson, L. S., Rumer, K. K., Tsai, E. S., Ganio, E. A., Gaudillière, D. K., Tsai, A. S., Choisy, B., Gaigne, L. P., Verdonk, F., Jacobsen, D., Gavasso, S., Traber, G. M., Ellenberger, M., Stanley, N., Becker, M., Culos, A., Fallahzadeh, R., Wong, R. J., Darmstadt, G. L., Druzin, M. L., Winn, V. D., Gibbs, R. S., Ling, X. B., Sylvester, K., Carvalho, B., Snyder, M. P., Shaw, G. M., Stevenson, D. K., Contrepolis, K., Angst, M. S., Aghaeepour, N. and Gaudillière, B.(2021). Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset. Science Translational Medicine 13(592). DOI: [10.1126/scitranslmed.abd9898](https://doi.org/10.1126/scitranslmed.abd9898)

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